

ABSTRACT OF THE DISCLOSURE

An operator definition file 102 and the like included in a source program 101 and a compiler 100 that translates the source program 101 into a machine language program 105 are provided.

- 5 The operator definition file 102 includes definitions of various fixed point type operators by class definitions. The compiler 100 can generate effectively advanced and specific instructions that a processor executes and make improvements through expanding functions and the like without repeating frequently upgrading of the
- 10 version of the compiler itself. The compiler 100 is made up of an intermediate code generation unit 121 that generates intermediate codes, a machine language instruction substitution unit 122 that substitutes the intermediate codes referring to classes defined by the operator definition file 102 with machine language instructions
- 15 and an optimization unit 130 that performs optimization targeting the intermediate codes including the substituted machine language instructions.